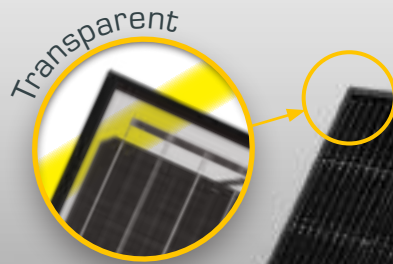




Solar Modules MONOCRYSTALLINE



N-TYPE
DOUBLE-GLASS MODULE

BIFACIAL HALFCUT
TECHNOLOGY



Mono S4 Innovation Powerline N

415 W • 420 W • 425 W

- Half cell modules - High efficiency, high safety, high reliability
- Highly transparent self-cleaning glass
- Bifacial cells - up to 30% higher energy yield due to transparent reverse side
- N-Type cell technology
- Resistant to environmental influences: Passed salt mist & ammonia test
- Multibusbar-technology
- German warranty



Mono S4 - Innovation Powerline N


Electrical data under STC (Standard Test Conditions: 1000 W/m², 25 °C, AM 1.5)

Rated power	P_{max}	415W	420 W	425 W
Sorting limits of performance		0/+3 %	0/+3 %	0/+3 %
Voltage	U_{MPP}	31,68 V	32,02 V	32,35 V
Open circuit voltage	U_{OC}	38,45 V	38,48 V	38,54 V
Current	I_{MPP}	13,10 A	13,12 A	13,14 A
Short-circuit current	I_{SC}	13,77 A	13,78 A	13,79 A
Efficiency		21,30 %	21,50 %	21,80 %

Temperature data

Operating temperature		- 40° C ~ + 85° C
Nominal operating cell temperature		42° C ± 2° C
Power temperature coefficient	$T_k (P_{MPP})$	-0.300 %/°C
Voltage temperature coefficient	$T_k (U_{OC})$	-0.250 %/°C
Current temperature coefficient	$T_k (I_{SC})$	0.045 %/°C

Further information

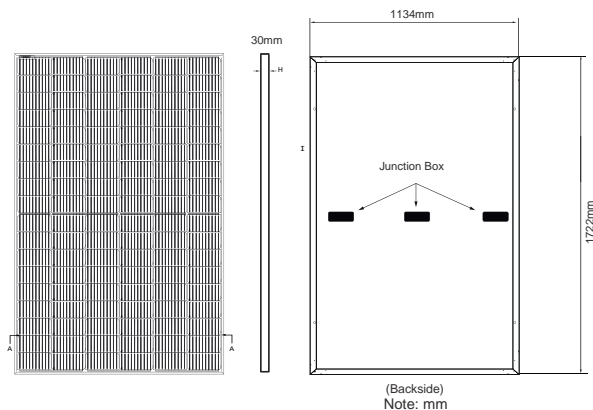
Number of cells	108 N-Type bifacial monocrystalline half cells (6 x 18)	
Module dimensions	1722 x 1134 x 30 mm	
Type of Frame	Anodized aluminium alloy	
Max. system voltage	1500 V	
Reverse current loading capability	30 A	
Glass thickness	Frontside/Backside: 2.0 mm/2.0 mm	
Weight	approx. 23.7 kg	
Module connection	MC4 or similar, 4.0 mm ² , cable length: (+) ≥ 1200 mm, (-) ≥ 1200 mm	
Junction box rating	IP68	
Allowable Hail Load	25 mm iceball with velocity of 23 m/s	
Snow load	5400 Pa $\hat{=}$ 550 kg/m ²	

30-year product warranty, 30-year linear performance warranty according to our additional warranty conditions for solar power modules of the "Mono S4" product series, which we will gladly send you.

Due to the tolerance of the anti-reflective coating, colour differences in the solar modules may occur.

Subject to technical modifications with corresponding follow-up certifications. Errors excepted. Illustration similar.

Mono S4 HC V XXX BF-DG (half cell module)



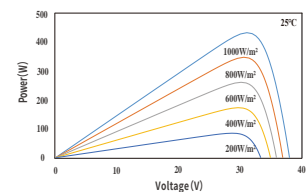
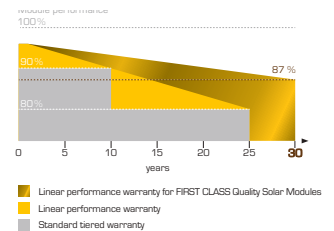
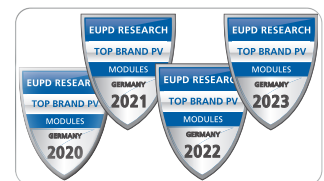
Note:
Ensure correct polarity!

Valid as of: 06.03.2023 / Document No.: 0822-IM1-1.3-E

Packaging Specifications

Truck	
Dimension pallet (L/W/H)	176/114/127.5 cm
Weight pallet	approx. 883 kg
Modules per pallet	36
Modules per truck	1008

Shipment	
Dimension pallet (L/W/H)	176/114/127.5 cm
Weight pallet	approx. 883 kg
Modules per pallet	36
Modules per container [40' HC]	936



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